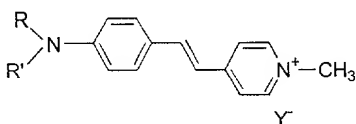


CLAIMS

1. A highly efficient and low-threshold mirrorless laser (producing laser-like emission without mirrors), comprising:

- a. at least one strongly dipolar organic molecular salt having the following chemical formula as the active media:



where *R* and *R'* are the same or different, and comprise a moiety selected from the group consisting of alkyl, substituted alkyl, benzyl, and substituted benzyl, and *Y*⁻ is an anion organic materials producing highly efficient laser-like emission at low thresholds without external mirrors in solution as active media; and

- b. a pump laser projecting the excitation beam into the active media.

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